



**GOVERNMENT OF THE DISTRICT OF COLUMBIA
CONSTRUCTION CODES COORDINATING BOARD**
c/o DCRA– 1100 4th Street SW, Washington, DC 20024

CODE CHANGE PROPOSAL FORM

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CODE: IRC SECTION NO. N1102 SUBCOMMITTEE AMENDMENT NO. R-11-3-11
PROPOSING SUBCOMMITTEE: Residential CHAIR: Berley PHONE: 202-478-9270 E-mail: aberley@eandggroup.com
DATES OF PROPOSAL: 8/16/2010 CCCB PRESENTATION: 8/19/2010 CCCB APPROVAL: 9/10/11

CHECK ONE ☐ *Revise section to read as follows:* ☒ *Delete section and substitute the following:*
 ☐ *Add new section to read as follows:* ☐ *Delete section without substitution.*

TYPE ALL TEXT IN 12-POINT TIMES NEW ROMAN FONT
~~LINE THROUGH TEXT TO BE DELETED~~ (highlight text, under *Format*, click font and check strikethrough)
UNDERLINE TEXT TO BE ADDED
Use additional sheets of the form, if necessary.

See Attached Pages

Anticipated impact of code change on cost of construction (CHECK ONE)
☐ *Increase* ☐ *Decrease* ☐ *Negligible* ☒ *Unknown*

Per 1,000 SF single-family dwelling to
Per 1,000SF of commercial building to

JUSTIFICATION OF CHANGE:
Please reference one or more of the criteria required
☐ To address a critical life/safety, health, general welfare need.
☐ To address a specific District of Columbia policy or statute
☐ For consistency with federal, or with reference to the Metro DC area (MD, VA) codes
☐ Address a unique character issue in the District of Columbia
☐ Correction of errors and omissions
☒ Other (explain)

These code changes are carried over from 12 DCMR 2008 construction codes.



Delete Table N1102.1 of the International Residential Code and add new Table RN-1102.1.1 to read as follows:

**TABLE R-1102.1
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT ^a**

CLIMATE ZONE	FENESTRATION U-FACTOR	SKY-LIGHT U-FACTOR ^b	GLAZED FENESTRATION SHGC	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE ^h	FLOOR R-VALUE	BASEMENT ^c WALL R-VALUE	SLAB ^d R-VALUE & DEPTH	CRAWL SPACE ^e WALL R-VALUE
1	1.20	0.75	0.37	30	13	3/4	13	0	0	0
2	0.75	0.75	0.37	30	13	4/6	13	0	0	0
3	0.65	0.65	0.40 ^e	30	13	5/8	19	0	0	5 / 13
4 except Marine	0.35	0.60	NR	49	18	5/10	19	10 / 13	10, 2ft	10 / 13
5 and Marine 4	0.35	0.60	NR	38	19 or 13+5 ^g	13/17	30 ^f	10 / 13	10, 2ft	10 / 13
6	0.35	0.60	NR	49	19 or 13+5 ^g	15/19	30 ^f	10 / 13	10, 4ft	10 / 13
7 and 8	0.35	0.60	NR	49	21	19/21	30 ^f	10 / 13	10, 4ft	10 / 13

For SI: 1 foot = 304.8 mm.

- R*-values are minimums. *U*-factors and SHGC are maximums. R-19 shall be permitted to be compressed into a 2 × 6 cavity.
- The fenestration *U*-factor column excludes skylights. The SHGC column applies to all glazed fenestration.
- The first *R*-value applies to continuous insulation, the second to framing cavity insulation; either insulation meets the requirement.
- R-5 shall be added to the required slab edge *R*-values for heated slabs.
- There are no SHGC requirements in the Marine zone.
- Or insulation sufficient to fill the framing cavity, R-19 minimum.
- “13+5” means R-13 cavity insulation plus R-5 insulated sheathing. If structural sheathing covers 25 percent or less of the exterior, insulating sheathing is not required where structural sheathing is used. If structural sheathing covers more than 25 percent of exterior, structural sheathing shall be supplemented with insulated sheathing of at least R-2.
- The second *R*-value applies when more than half the insulation is on the interior of the mass wall.



Delete Table N1102.1.2 of the Residential Code and add new Table RN1102.1.2 to read as follows:

**TABLE RN1102.1.2
EQUIVALENT U-FACTORS ^a**

CLIMATE ZONE	FENESTRATION U-FACTOR	SKY-LIGHT U-FACTOR	CEILING U-FACTOR	FRAME WALL U-FACTOR	MASS WALL U-FACTOR ^b	FLOOR U-FACTOR	BASEMENT WALL U-FACTOR	CRAWL SPACE WALL U-FACTOR
1	1.20	0.75	0.035	0.082	0.197	0.064	0.360	0.477
2	0.75	0.75	0.035	0.082	0.165	0.064	0.360	0.477
3	0.65	0.65	0.035	0.082	0.141	0.047	0.360	0.136
4 except Marine	0.35	0.60	0.026	0.062	0.141	0.047	0.059	0.065
5 and Marine 4	0.35	0.60	0.030	0.060	0.082	0.037	0.059	0.065
6	0.35	0.60	0.026	0.060	0.060	0.033	0.059	0.065
7 and 8	0.35	0.60	0.026	0.057	0.057	0.033	0.041	0.057

- a. Nonfenestration *U*-factors shall be obtained from measurement, calculation or an approved source.
- b. When more than half the insulation is on the interior, the mass wall *U*-factors shall be a maximum of 0.10 in Zone 4 except Marine.